# CUMULATIVE INDEXES

## CONTRIBUTING AUTHORS, VOLUMES 14–18


A

Anderson, T. F., 15:405–17

B

Baker, B., 17:345–93
Belote, J., 17:345–93
Bentvelzen, P., 16:273–95
Bergström, S., 17:499–525
Bevan, M. W., 16:357–84
Boss, G. R., 16:297–328
Botstein, D., 16:61–83
Brutlag, D. L., 14:121–44

C

Chilton, M.-D., 16:357–84
Clow, C. L., 14:179–202
Cohn, R., 17:239–77
Cowell, J. K., 16:21–59
Cox, D., 17:49–83

D

Dausset, J., 15:169–87
Denniston, C., 16:329–55
DiMaio, D., 15:265–94
Dykhuizen, D. E., 18:31–58

E

Edgar, R. S., 16:501–5
Edlund, T., 17:499–525
Egel, R., 14:77–108
Elder, J. T., 15:295–340
Engels, W., 17:315–44
Epstein, C., 17:49–83

F

Fritsch, E. F., 14:145–78

G

Gabay-Laughnan, S., 17:27–48
Gartler, S., 17:155–90
Godfrey, S. S., 16:385–404
Goldsmith, M. R., 18:443–87
Goodgal, S. H., 16:169–92
Gorovsky, M. A., 14:203–39
Gottesman, S., 18:415–41
Green, M. M., 14:109–20
Grundström, T., 17:499–525
Gurdon, J. B., 15:189–218

H

Hagen, D., 14:399–445
Hall, M. N., 15:91–142
Hansen, T. H., 18:99–129
Harris, H., 17:279–314
Hartl, D. L., 18:31–68
Hassold, T. J., 18:69–97
Haynes, R. H., 15:57–89
Henry, S. A., 18:207–31
Herskowitz, I., 14:399–445
Hoess, R., 17:123–54
Hogge, W. A., 17:49–83
Holm, P. B., 18:331–413
Horowitz, J., 17:85–121
Horvitz, H. R., 18:489–524

J

Jacobs, P. A., 18:69–97
Jaurin, B., 17:499–525
Jones, E. W., 18:233–70

K

Kafatos, F. C., 18:443–87
Kao, F.-T., 16:225–71
Kazazian, H. H. Jr., 18:131–71
Kedes, L., 17:239–77
Kleckner, N., 15:341–404
Klig, L. S., 18:207–31
Kohli, J., 14:77–108
Kolter, R., 16:113–34
Kunz, B. A., 15:57–89

L

Latt, S. A., 15:11–55
Lauer, J., 14:145–89
Laughnan, J., 17:27–48
Lawn, R. M., 14:145–78
Lee, D. R., 18:99–129
Lindberg, F., 17:499–525
Loewy, B. S., 18:207–31

M

Magasanik, B., 16:135–68
Maniatis, R., 14:145–78
Maurer, R., 16:61–83
Maxson, R., 17:239–77
Maynard Smith, J., 17:11–25
McBride, O. W., 14:21–56
McCarty, M., 14:1–15
McCubrey, J., 17:85–121
Melton, D. A., 15:189–218
Miller, J., 17:215–38
Mitra, S., 14:247–97
Mohun, T., 17:239–77
Mount, D. W., 14:279–319

N

Nairn, R., 14:241–77
Nanney, D. L., 15:1–9
Nash, H. A., 15:143–67
Nasmyth, K. A., 16:439–500
Nathenson, S. G., 14:241–77
Neel, J. V., 12:365–413,17:1–10
Neidhardt, F. C., 18:295–329

O

O'Brien, J., 17:395–441
Olsson, O., 17:499–525
Orkin, S. H., 18:131–171

P

Peterson, J. L., 14:321–45

# CUMULATIVE INDEXES

## CONTRIBUTING AUTHORS, VOLUMES 14–18


A

Anderson, T. F., 15:405–17

B

Baker, B., 17:345–93
Belote, J., 17:345–93
Bentvelzen, P., 16:273–95
Bergström, S., 17:499–525
Bevan, M. W., 16:357–84
Boss, G. R., 16:297–328
Botstein, D., 16:61–83
Brutlag, D. L., 14:121–44

C

Chilton, M.-D., 16:357–84
Clow, C. L., 14:179–202
Cohn, R., 17:239–77
Cowell, J. K., 16:21–59
Cox, D., 17:49–83

D

Dausset, J., 15:169–87
Denniston, C., 16:329–55
DiMaio, D., 15:265–94
Dykhuizen, D. E., 18:31–58

E

Edgar, R. S., 16:501–5
Edlund, T., 17:499–525
Egel, R., 14:77–108
Elder, J. T., 15:295–340
Engels, W., 17:315–44
Epstein, C., 17:49–83

F

Fritsch, E. F., 14:145–78

G

Gabay-Laughnan, S., 17:27–48
Gartler, S., 17:155–90
Godfrey, S. S., 16:385–404
Goldsmith, M. R., 18:443–87
Goodgal, S. H., 16:169–92
Gorovsky, M. A., 14:203–39
Gottesman, S., 18:415–41
Green, M. M., 14:109–20
Grundström, T., 17:499–525
Gurdon, J. B., 15:189–218

H

Hagen, D., 14:399–445
Hall, M. N., 15:91–142
Hansen, T. H., 18:99–129
Harris, H., 17:279–314
Hartl, D. L., 18:31–68
Hassold, T. J., 18:69–97
Haynes, R. H., 15:57–89
Henry, S. A., 18:207–31
Herskowitz, I., 14:399–445
Hoess, R., 17:123–54
Hogge, W. A., 17:49–83
Holm, P. B., 18:331–413
Horowitz, J., 17:85–121
Horvitz, H. R., 18:489–524

J

Jacobs, P. A., 18:69–97
Jaurin, B., 17:499–525
Jones, E. W., 18:233–70

K

Kafatos, F. C., 18:443–87
Kao, F.-T., 16:225–71
Kazazian, H. H. Jr., 18:131–71
Kedes, L., 17:239–77
Kleckner, N., 15:341–404
Klig, L. S., 18:207–31
Kohli, J., 14:77–108
Kolter, R., 16:113–34
Kunz, B. A., 15:57–89

L

Latt, S. A., 15:11–55
Lauer, J., 14:145–89
Laughnan, J., 17:27–48
Lawn, R. M., 14:145–78
Lee, D. R., 18:99–129
Lindberg, F., 17:499–525
Loewy, B. S., 18:207–31

M

Magasanik, B., 16:135–68
Maniatis, R., 14:145–78
Maurer, R., 16:61–83
Maxson, R., 17:239–77
Maynard Smith, J., 17:11–25
McBride, O. W., 14:21–56
McCarty, M., 14:1–15
McCubrey, J., 17:85–121
Melton, D. A., 15:189–218
Miller, J., 17:215–38
Mitra, S., 14:247–97
Mohun, T., 17:239–77
Mount, D. W., 14:279–319

N

Nairn, R., 14:241–77
Nanney, D. L., 15:1–9
Nash, H. A., 15:143–67
Nasmyth, K. A., 16:439–500
Nathenson, S. G., 14:241–77
Neel, J. V., 12:365–413,17:1–10
Neidhardt, F. C., 18:295–329

O

O'Brien, J., 17:395–441
Olsson, O., 17:499–525
Orkin, S. H., 18:131–171

P

Peterson, J. L., 14:321–45

Puck, T. T., 16:225–71

R

Radding, C. M., 16:405–37
Raibaud, O., 18:173–206
Rasmussen, S. W., 18:331–413
Rhoades, M. M., 18:1–29
Rickards, G., 17:443–98
Riggs, A., 17:155–90
Risser, R., 17:85–121
Robinson, A., 17:191–214
Roman, H., 14:447–50
Rowley, J. D., 14:17–39
Rubin, G. M., 15:219–64
Ryder, L. P., 15:169–87

S

Scandalios, J. G., 16:85–112
Schonberg, S., 17:49–83
Schwartz, M., 18:173–206
Scriver, C. R., 14:179–202
Seegmiller, J. E., 16:297–328
Shortle, D., 15:265–95
Shreffler, D. C., 18:99–129
Silhavy, T. J., 15:91–142
Simpson, J. L., 16:193–224
Skurray, R., 14:41–76
Spinella, D. G., 18:99–129
Spradling, A. C., 15:219–64
Spritz, R. A., 15:295–340
Stanley, P., 18:525–52
Sternberg, N., 17:123–54
Sternberg, P. W., 18:489–524
Sussman, M., 16:385–404
Svejgaard, A., 15:169–87
Syvanen, M., 18:271–93

T

Thuriaux, P., 14:77–108

V

VanBogelen, R. A., 18:295–329
Varmus, H. E., 18:553/-612
Vaughn, V., 18:295–329
von Wettstein, D., 18:331/-413

W

Warner, T., 17:395–441
Weissman, S. M., 15:295–340
Willetts, N., 14:41–76
Wolf, K., 14:77–108
Wright, S., 16:1–19

Y

Yamaga, K., 14:241–77
Yanofsky, C., 16:113–34

# CHAPTER TITLES, VOLUMES 14–18


| | | |
|---|---|---|
| **INTRODUCTORY CHAPTERS** | | |
| Reminiscences of the Early Days of Transformation | M. McCarty | 14:1–15 |
| T. M. Sonneborn: An Interpretation | D. L. Nanney | 15:1–9 |
| The Shifting Balance Theory and Macroevolution | S. Wright | 16:1–19 |
| Curt Stern, 1902–1981 | J. V. Neel | 17:1–10 |
| The Early Years of Maize Genetics | M. M. Rhoades | 18:1–29 |
| **BACTERIAL GENETICS** | | |
| The Conjugation System of F-like Plasmids | N. Willetts, R. Skurray | 14:41–76 |
| The Genetics of Protein Degradation in Bacteria | D. W. Mount | 14:279–319 |
| Genetic Analysis of the Major Outer Membrane Proteins of *Escherichia coli* | M. N. Hall, T. J. Silbavy | 15:91–142 |
| Transposable Elements in Prokaryotes | N. Kleckner | 15:341–404 |
| Genetic Control of Nitrogen Assimilation in Bacteria | B. Magasanik | 16:135–68 |
| DNA Uptake in *Haemophilus* Transformation | S. H. Goodgal | 16:169–92 |
| T-DNA of the *Agrobacterium* TI and RI Plasmids | M.-D. Chilton, M. W. Bevan | 16:357–84 |
| Positive Control of Transcription Initiation in Bacteria | O. Raibaud, M. Schwartz | 18:173–206 |
| Bacterial Regulation: Global Regulatory Networks | Susan Gottesman | 18:415–41 |
| The Genetics and Regulation of Heat-Shock Proteins | F. C. Neidhardt, R. A. VanBogelen, V. Vaughn | 18:295–329 |
| **BIOCHEMICAL GENETICS** | | |
| DNA Replication in Viruses | S. Mitra | 14:347–97 |
| Genetic Defects in Human Purine and Pyrimidine Metabolism | J. E. Seegmiller, G. R. Boss | 16:297–328 |
| Genetic Defects in Glycoprotein Metabolism | T. G. Warner, J. S. O'Brien | 17:395–441 |
| The Mutation and Polymorphism of the Human ß-Globin Gene and Its Surrounding DNA | S. H. Orkin, H. H. Kazazian, Jr. | 18:131–71 |
| The Synthesis and Function of Proteases in *Saccharomyces*: Genetic Approaches | E. W. Jones | 18:233–70 |
| The Synaptonemal Complex in Genetic Segregation | D. von Wettstein, S. W. Rasmussen, P. B. Holm | 18:331–413 |
| Glycosylation Mutants of Animal Cells | P. Stanley | 18:525–52 |
| **CHROMOSOME BEHAVIOR** | | |
| Sister Chromatid Exchange Formation | S. A. Latt | 15:11–55 |
| The P Family of Transposable Elements in Drosophila | W. R. Engels | 17:315–44 |
| Orientation Behavior of Chromosome Multiples of Interchange (Reciprocal Translocation) Heterozygotes | G. K. Rickards | 17:443–98 |
| **CHROMOSOME STRUCTURE** | | |
| Molecular Arrangement and Evolution of Heterochromatic DNA | D. L. Brutlag | 14:121–44 |

| | | |
|---|---|---|
| **DEVELOPMENTAL GENETICS** | | |
| Genome Organization and Reorganization in *Tetrahymena* | M. A. Gorovsky | 14:203–39 |
| Gene Transfer in Amphibian Eggs and Oocytes | J. B. Gurdon, D. A. Melton | 15:189–218 |
| Genetic Approaches to the Analysis of Microbial Development | D. Botstein, R. Maurer | 16:61–83 |
| Developmental Genetics of Maize | J. G. Scandalios | 16:85–112 |
| The Genetics of Development in *Dictyostelium Discoideum* | M. Sussman, S. S. Godfrey | 16:385–404 |
| Molecular Genetics of Yeast Mating Type | K. A. Nasmyth | 16:439–500 |
| Sex Determination and Dosage Compensation in *Drosophila melanogaster* | B. S. Baker, J. M. Belote | 17:345–93 |
| The Genetic Control of Cell Lineage During Nematode Development | P. W. Sternberg, H. R. Horvitz | 18:489–524 |
| Developmentally Regulated Genes in Silkmoths | M. R. Goldsmith, F. C. Kafatos | 18:443–87 |
| **EXTRACHROMOSOMAL INHERITANCE** | | |
| Cytoplasmic Male Sterility in Maize | J. R. Laughnan, S. Gabay-Laughnan | 17:27–48 |
| **FUNGAL GENETICS** | | |
| The Genetic Regulation and Coordination of Biosynthetic Pathways in Yeast: Amino Acid and Phospholipid Synthesis | S. A. Henry, L. S. Klig, B. S. Loewy | 18:207–31 |
| **GENE MUTATION** | | |
| Directed Mutagenesis | D. Shortle, D. DiMaio, D. Nathans | 15:265–94 |
| Phenomenology and Genetic Control of Mitotic Recombination in Yeast | B. A. Kunz, R. H. Haynes | 15:57–89 |
| Somatic Cell Genetics and its Application to Medicine | T. T. Puck, F.-T. Kao | 16:225–71 |
| Mutational Specificity in Bacteria | J. Miller | 17:215–38 |
| **HUMAN GENETICS** | | |
| Chromosome Abnormalities in Human Leukemia | J. D. Rowley | 14:17–39 |
| Phenylketonuria and Other Phenylalanine Hydroxylation Mutants in Man | C. R. Scriver, C. L. Clow | 14:179–202 |
| Abnormal Sexual Differentiation in Humans | J. L. Simpson | 16:193–224 |
| Recent Developments in the Prenatal Diagnosis of Genetic Diseases and Birth Defects | C. J. Epstein, D. R. Cox, S. A. Schonberg, W. A. Hogge | 17:49–83 |
| Trisomy in Man | T. J. Hassold, P. A. Jacobs | 18:69–97 |
| **IMMUNOGENETICS** | | |
| Biochemistry of the Gene Products from Murine MHC Mutants | R. Nairn, K. Hamaga, S. G. Nathenson | 14:241–77 |
| Genetics of HLA Disease Association | L. P. Ryder, A. Svejgaard, J. Dausset | 15:169–87 |
| The Immunogenetics of the Mouse Major Histocompatibility Gene Complex | T. H. Hansen, D. G. Spinella, D. R. Lee, D. C. Shreffler | 18:99–129 |
| **MAMMALIAN GENETICS** | | |
| Chromosome-Mediated Gene Transfer in Mammalian Cells | O. W. McBride, J. L. Peterson | 14:321–45 |
| Double Minutes and Homogeneously Staining Regions: Gene Amplification in Mammalian Cells | J. K. Cowell | 16:21–59 |

| | | |
|---|---|---|
| Interaction Between Host and Viral Genomes in Mouse Mammary Tumors | P. Bentvelzen | 16:273–95 |
| Mammalian X-Chromosome Inactivation | S. M. Gartler, A. D. Riggs | 17:155–90 |
| Endogenous Mouse Leukemia Viruses | R. Risser, J. M. Horowitz, J. McCubrey | 17:85–121 |
| Applications of Monoclonal Antibodies in Enzyme Genetics | H. Harris | 17:279–314 |
| **MOLECULAR GENETICS** | | |
| The Molecular Genetics of Human Hemoglobins | T. Maniatis, E. F. Fritsch, J. Lauer, R. M. Lawn | 14:145–78 |
| Drosophila Genome Organization: Conserved and Dynamic Aspects | A. C. Spradling, G. M. Rubin | 15:219–64 |
| Attenuation in Amino Acid Biosynthetic Operons | C. Yanofsky, R. Kolter | 16:113–34 |
| Overlapping Genes | S. Normark, S. Bergström, T. Edlund, T. Grundström, B. Jaurin, F. P. Lindberg, O. Olsson | 17:499–525 |
| Expression and Organization of Histone Genes | R. Maxson, R. Cohn, L. Kedes, T. Mohun | 17:239–77 |
| The Evolutionary Implications of Mobile Genetic Elements | M. Syvanen | 18:271–93 |
| **POPULATION AND EVOLUTIONARY GENETICS** | | |
| The Genetics of Stasis and Punctuation | J. Maynard Smith | 17:11–25 |
| The Population Genetics of *Escherichia coli* | D. L. Hartl, D. E. Dykhuizen | 18:31–68 |
| **RADIATION GENETICS** | | |
| Low Level Radiation and Genetic Risk Estimation in Man | C. Denniston | 16:329–55 |
| **RECOMBINATION** | | |
| Integration and Excision of Bacteriophage Lambda: The Mechanism of Conservative Site Specific Recombination | H. A. Nash | 15:143–67 |
| Strand Transfer in Homologous Genetic Recombination | C. M. Radding | 16:405–37 |
| **REGULATION OF GENE AND CHROMOSOME FUNCTION** | | |
| The Molecular Genetics of Cellular Oncogenes | H. E. Varmus | 18:553–612 |
| **VIRAL GENETICS** | | |
| The Lysis-Lysogeny Decision of Phage λ: Explicit Programming and Responsiveness | I. Herskowitz, D. Hagen | 14:399–445 |
| Simian Virus 40 as a Eukaryotic Cloning Vehicle | J. T. Elder, R. A. Spritz, S. M. Weissman | 15:295–340 |
| The Molecular Genetics of Bacteriophage P1 | N. Sternberg, R. Hoess | 17:123–54 |
| **SPECIAL TOPICS** | | |
| Genetics of the Fission Yeast *Schizosaccharomyces pombe* | R. Egel, J. Kohli, P. Thuriaux, K. Wolf | 14:77–108 |
| Transposable Elements in *Drosophila* and Other Diptera | M. M. Green | 14:109–20 |
| Boris Ephrussi | H. Roman | 14:447–50 |
| Reflections on Phage Genetics | T. F. Anderson | 15:405–17 |
| Max Delbrück | R. Edgar | 16:501–5 |
| Sex-Ratio Manipulation in Relation to Insect Pest Control | A. S. Robinson | 17:191–214 |